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INFOSheet

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2004 PERFORMANCE TRIAL REPORT FOR DRY EDIBLE BEANS

Prepared by the Ontario Pulse Crop Committee
(Replaces OMAF Factsheet *2003 Performance Trials for Dry Edible Beans*, Order No. 03-011)

This INFOSheet contains the most recent variety information for dry edible beans. The information is prepared annually by the Ontario Pulse Crop Committee and edited by OMAF.

REFERENCES:

OMAF Publication 811, *Agronomy Guide for Field Crops*

OMAF Publication 812, *Field Crop Protection Guide*

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TABLE 1. White Bean Variety Performance

Full Season/Mid-Season Areas [1]			Short Season Areas [2]		
Variety [3]	Days to Maturity	Yield [4] (t/ha)	Variety [3]	Days to Maturity	Yield [4] (t/ha)
Envoy	82	2.68	OAC Speedvale	87	2.21
AC Compass	86	3.27	Envoy	90	2.28
OAC Thunder	86	3.50	Cirrus	90	2.49
Beacon	87	3.21	AC Compass	93	2.85
Regent	88	3.02	OAC Thunder	96	2.88
OAC Silvercreek	88	3.30	Regent	97	2.71
Stingray	88	3.23	AC Cruiser	98	2.70
AC Cruiser	88	3.23	Stingray	99	2.77
Navigator	88	2.93	OAC Gryphon	99	2.90
OAC Gryphon	88	3.23	AC Mast	100	2.69
Vista	89	3.33	AC Trident	100	3.02
OAC Rex	90	3.50			
AC Trident	90	3.23			
AC Mast	90	3.14			
Crestwood	91	3.22			
Scepter	93	3.47			

[1] Yield and days to maturity are based on the mean of 6 trials at 4 locations (Kippen, St. Thomas and Granton) over 3 years (2001–2003). For a graphic picture of the data see Figure 1. *Yield vs. Maturity for Full/Mid Season White Bean Varieties (Regression Chart)*

[2] Yield and days to maturity are based on the mean of 9 trials at 3 locations (Brussels, Elora and Winchester) over 3 years (2001–2003). For a graphic picture of the data see Figure 2. *Yield vs. Maturity for Short Season White Bean Varieties (Regression Chart)*

[3] White bean varieties are arranged based on days to maturity. The maturity of most varieties changes between areas due to environmental differences.

[4] 1 t/ha = 893 lbs./ac.

FIGURE 1. Yield vs. Maturity for Full/Mid Season Areas (Regression Chart)

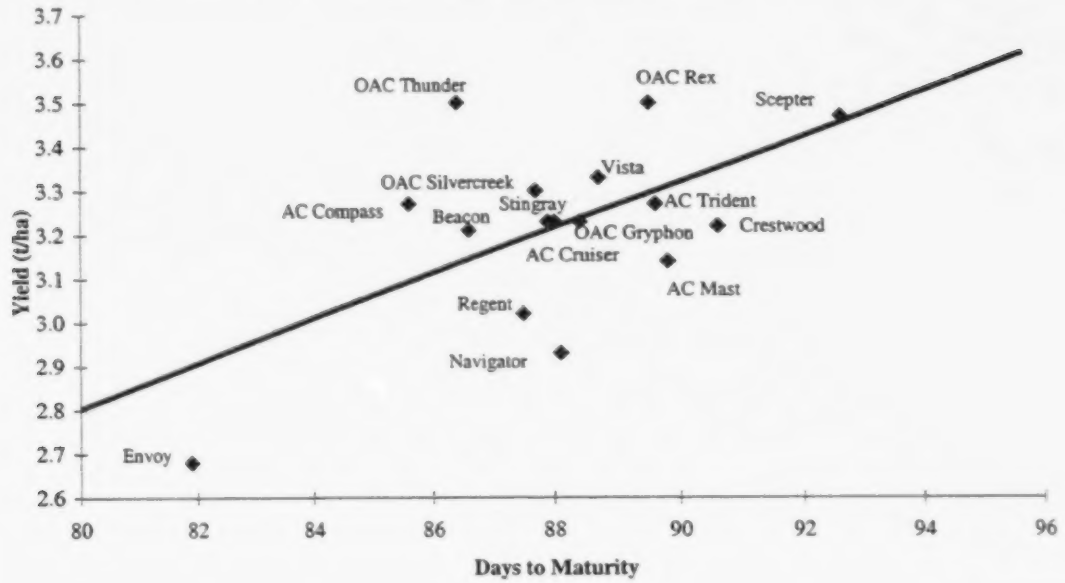

FIGURE 2. Yield vs. Maturity for Short Season Areas (Regression Chart)

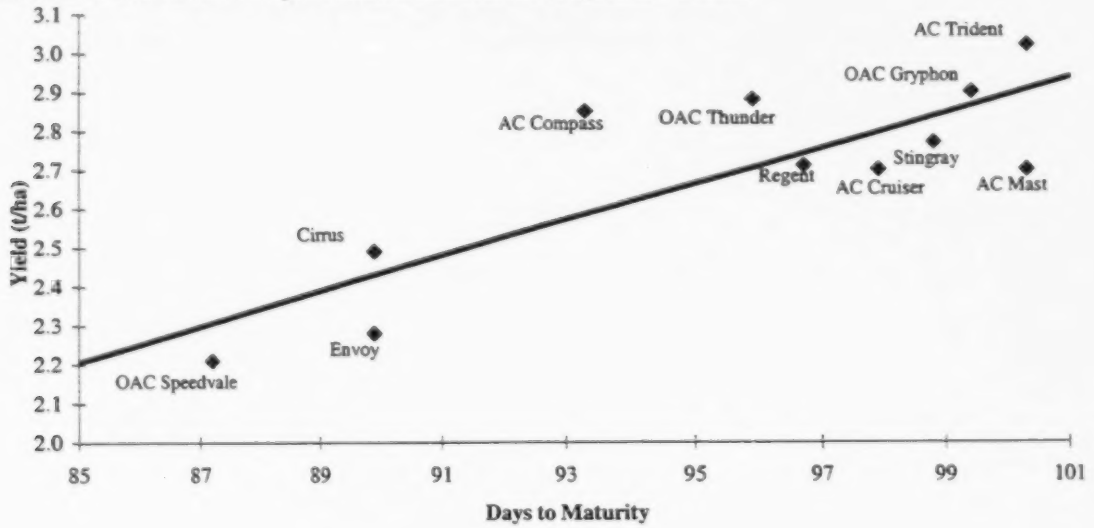

TABLE 2. White Bean Characteristics and Distributors

Variety	100 Seed Weight (g)	Disease Reaction [1] Bean Common Mosaic Virus Race 1	Bean Common Mosaic Virus Race 15	Anthracnose [4] Race 17	Anthracnose [4] Race 23	White Mould [2]	Distributor
OAC Speedvale	19.8	R	R	R	S	3.0	Public Variety
Envoy	20.1	R	S	R	R	3.2	Cooks, Hyland Seeds, Hensall Co-op
AC Compass	21.9	R	R	S	S	3.0	Cooks
Cirrus	19.7	NA	NA	NA	NA	NA	Hyland Seeds
Premiere	20.2	R	R	S	S	2.9	Hyland Seeds
OAC Thunder	21.7	R	R	S	S	2.5	SeCan Association
AC Cruiser	20.3	R	R	S	S	NA	Hensall Co-op
Regent	18.3	R	R	R	R	NA	Cooks, Hyland Seeds, Hensall Co-op
Stingray	21.4	R	R	S	S	2.6	Hyland Seeds
Beacon	19.8	NA	NA	NA	NA	NA	Hyland Seeds
AC Mast	21.7	R	R	S	S	2.7[3]	Advantage Seeds
AC Trident	20.4	R	R	S	S	2.5	Great Canadian Bean Company
OAC Silvercreek	21.1	R	R	R	R	2.3	SeCan Association
OAC Gryphon	19.6	R	R	R	R	2.9	Public Variety
Crestwood	21.3	R	R	R	R	2.8	Cooks, Hyland Seeds, Hensall Co-op
Navigator	19.5	R	R	S	S	NA	Syngenta Seeds
OAC Rex*	20.0	R	R	S	S	NA	Great Canadian Bean Company
Scepter	24.4	R	R	R	R	NA	Cooks, Hyland Seeds, Hensall Co-op
Vista	19.9	R	R	R	R	2.5	Cooks, Hyland Seeds, Hensall Co-op

[1] R = Resistant, S = Susceptible, NA = Not Available

[2] White mould ratings are based on a scale of 1–5, where 1 = very tolerant or low levels of natural infestation, 5 = very susceptible. White mould trials were located at St. Thomas and Shetland in 1996, Kippen, St. Thomas and Elora in 1997 and Kippen and Winchester in 2000, NA = Not Available.

[3] White mould rating based on 1997 and 2000 only.

[4] Anthracnose race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

* Resistance gene for common bacterial blight (*Xanthomonas campestris pv. phaseoli*). Very little disease will develop on this variety.

TABLE 3. Coloured Bean Variety Performance

Variety	Market Class	Days to Maturity [1]	Yield [1,3] (t/ha)	100 Seed [1] Weight (g)	Disease Reaction [2]				Distributor
					Bean Common Mosaic Virus		Anthracnose [4]		
					Race 1	Race 15	Race 17	Race 23	
Cran 09	Cranberry	83	2.30	48.5	S	R	S	S	Cooks, Hyland, Hensall
SVM Taylor Cranberry	Cranberry	82	2.27	49.1	S	S	S	S	ADM A.S.I.
Hooter	Cranberry	92	2.48	54.2	R	R	S	S	Cooks
Red Hawk	Dark Red Kidney	87	2.05	47.1	R	R	R	R	Hyland Seeds
Montcalm	Dark Red Kidney	92	1.80	47.5	R	R	R	S	Public
AC Calmont	Dark Red Kidney	91	2.17	48.4	R	R	R	R	G.C.B.C.
AC Elk	Light Red Kidney	84	1.94	52.9	R	S	R	S	Public Variety
AC Litekid	Light Red Kidney	93	2.27	45.3	R	R	R	S	Public Variety
AC Harblack	Black	95	2.51	19.9	R	R	S	R	SeCan Assoc.
Blackjack	Black	96	2.57	22.5	R	R	R	R	Cooks, Hyland, Hensall
GTS 401	White kidney	98	2.16	39.4	R	R	R	S	Cooks, Hyland, Hensall

[1] Yields, maturities and seed weights are based on the means of 11 trials at 5 locations (Woodstock, Kippen, Monkton, St. Thomas and Thorndale) over 4 years (2001-2003).

[2] Disease Ratings (R = Resistant, S - Susceptible, NA = Not Available)

[3] 1 t/ha = 893 lbs./ac.

[4] Anthracnose race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

TABLE 4. Addresses of Distributors for Edible Bean Varieties

Advantage Seed Growers and Processors Inc. Box 29, 323 Havelock Street, Lucknow, Ontario N0G 2H0 1-800-651-7333	Cook's Division of Parrish and Heimbecker P.O. Box 10, Centralia ON N0M 1K0 (519) 228-7000	Hensall District Co-op P.O. Box 219, Hensall, ON N0M 1X0 (519) 262-3002
ADM Agri Sales Inc. (ADM A.S.I.) 2385 Wright Ave. Twin Falls, Idaho (208) 734-2550	Gen-Tec Seeds Ltd. P. O. Box 98, Woodslee ON N0R 1V0 (519) 975-2557	Hyland Seeds Div. of Thompsons Ltd. P. O. Box 130, Blenheim ON N0P 1A0 (519) 676-8146
Great Canadian Bean Co. (G.C.B.C.) R. R. #1, Ailsa Craig ON N0M 1A0 (519) 232-4449	SeCan Association 201-52 Antares Drive Ottawa ON K2E 7Z1 (613) 225-6891	Syngenta Seeds Inc. P.O. Box 4188 Boise Idaho 83704-4188 (208) 322-7272